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# PATENT SPECIFICATION RESERVE COPY

Application Date: Dec. 30, 1932. No. 36,940/32.

412,609

Complete Left: Dec. 29, 1933.

Complete Accepted: July 2, 1934.

## PROVISIONAL SPECIFICATION.



### Improvements in Moulded Cases or like Containers.

We, UNIVERSAL SEAMLESS CONTAINERS LIMITED, of Bush House, Aldwych, London, W.C.2, an English Joint Stock Company duly Registered; and KENNETH BURGESS-BROWN, of 60 Vineyard Hill, Wimbledon, London, S.W.19; a British Subject; do hereby declare the nature of this invention to be as follows:—

The present invention relates to protective cases or like containers for packing bottles and other fragile articles and the like purposes.

It is known to make cases or like containers for the above mentioned purposes by moulding a suitable cellulosic pulp, as for example by the well known Drake Process, such containers having a sufficient degree of rigidity and taking the form of an open ended sheath which can be slipped over the bottle or the like object for the protection of which the container is intended.

In the hitherto known cases or like containers of this kind the closure of the open end to retain the bottle or other contained object is effected by slipping a second open ended sheath-like container over part of the length of the first or by means of a removable lid. An object of the present invention is the provision of an improved container of the kind referred to in which separate means for closing the open end is dispensed with.

According to the present invention a case or like container for the purposes referred to integrally moulded from cellulosic pulp material and having one open end is provided with integrally formed closure means for said open end, the whole being formed in one moulding operation.

The said end closure means consist preferably of one or more flaps or the like formed on the edges of the body of the container around the open end, which flaps may be folded over at the ridge moulded for the purpose to close said

opening after inserting the bottle or other contents of the container.

In order to enable the flaps to be folded they may conveniently be joined to the main body of the container along lines of comparative flexibility, such lines of flexibility being produced either in the moulding operation or subsequently.

In order to enable the case or like container to grip the bottle or the like and protect it from shocks by keeping it for the most part out of contact with the sides of the container, suitable depressions may be moulded in the outer surface of said container with the corresponding formation of ridges or projections on its inner surface, whereby the bottle or the like is located and gripped. A special arrangement and construction according to this invention comprises moulding a deep ridge or shoulder inwardly at the correct point to enable it to project over the shoulder of the bottle thus holding the bottle down and preventing undue pressure of the neck of the bottle on the centre of the top section. These depressions may be made of any suitable form to serve the above mentioned purpose. Further ornamental mouldings of any suitable shape may be provided either alone or in conjunction with the hereinbefore mentioned depressions for holding the contents in position.

In one convenient form of construction the improved case or like container is of a rectangular cross section and a flap is formed at the open end of each side of the rectangle, the longer pair of flaps being arranged to fold over the shorter pair and to meet along a central line.

After inserting the contents the flaps are folded and may be secured in any suitable manner whereupon a completely closed case or like container results.

Dated this 30th day of December, 1932.

TONGUE & BIRKBECK,  
Agents for the Applicants.

## COMPLETE SPECIFICATION.

### Improvements in Moulded Cases or like Containers.

We, UNIVERSAL SEAMLESS CONTAINERS LIMITED, of Bush House, Aldwych, London, W.C.2, an English Joint Stock Company duly Registered; and KENNETH BURGESS-BROWN, of 60 Vineyard Hill, Wimbledon, London, S.W.19; a British Subject; do hereby declare the nature of this invention to be as follows:—

BURGISS-BROWN, of 60 Vineyard Hill, Wimbledon; London, S.W.19; a British Subject; do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

The present invention relates to protective cases or like containers for packing bottles and other fragile articles and the like purposes.

It is known to make cases or like containers for the above mentioned purposes by moulding a suitable cellulosic pulp, as for example by the well known Drake Process, such containers having a sufficient degree of rigidity and taking the form of an open ended sheath which can be slipped over the bottle or the like object for the protection of which the container is intended.

In the hitherto known containers of this kind the closure of the open end to retain the bottle or other contained object is effected by slipping a second open ended sheath-like container over part of the length of the first or by means of a removable lid. An object of the present invention is the provision of an improved container of the kind referred to in which separate means for closing the open end is dispensed with.

According to the present invention a container of the kind and for the purposes above referred to integrally moulded from cellulosic pulp material and having one open end is provided with integrally formed closure means for said open end, the whole being formed in one moulding operation.

In order that the invention may be clearly understood and readily carried into effect the same will now be described more particularly with reference to embodiments which will be given by way of example, reference being taken to the accompanying drawings, in which:—

Fig. 1 is a side view of the container.

Fig. 2 is a section taken on the line A—A of Fig. 1.

Fig. 3 is a plan view of a section taken on the line B—B of Fig. 2.

Fig. 4 is a view in perspective of a slightly different form of the invention.

In Figs. 1, 2 and 3, the container is shown as a substantially rectangular box 1 having a closed end portion 2 formed integrally therewith. The other end of the box is left open and is provided with integral closure flaps 3, one on each of the four sides of the box 1. The flaps 3 may be folded over for the purpose of closing the opening after inserting the bottle or other contents of the container.

In order to enable the flaps 3 to be

folded they may conveniently be joined to the main body of the container along lines 4 of comparative flexibility, such lines of flexibility being produced either in the moulding operation or subsequently.

In order to enable the container to grip the bottle or the like and protect it from shocks by keeping it for the most part out of contact with the sides of the container, suitable depressions 5 are moulded in the outer surface of said container with the corresponding formation of projections 6 on its inner surface, whereby the bottle or the like is located and gripped.

In one form the projections 6 are provided with arcuate surfaces so that the body of the bottle 7 or the like (shown in dotted outline) is gripped substantially along its entire circumference (see Fig. 3).

A special arrangement and construction according to this invention as applied to a container formed with straight sides comprises moulding a deep projecting ridge or shoulder 6a inwardly by forming a depression 5a on the outside of the container at the correct point to enable it to project over and engage with the shoulder of the bottle 7 thus locating the bottle endwise and preventing undue pressure of the end of the neck of the bottle on the centre of the top end portion 2 of the container. These depressions 5, 5a may be made of any suitable form to serve the above mentioned purpose. Further, ornamental mouldings of any suitable shape may be provided either alone or in conjunction with the hereinbefore mentioned depressions for holding the contents in position.

In one convenient form of construction the improved container is of circular cross section (Fig. 4) changing to a rectangular cross section at the open end, a flap 3 being formed integrally on each side of the rectangle, or, on two sides of the rectangle only as shown. In either embodiment, where four flaps are provided, a longer pair can be adapted to fold over a shorter pair and to meet along a central line. If desired only two flaps may be provided, a longer one being arranged to fold over a shorter one or both may be the same length and arranged to meet along a central line in the middle of the rectangle.

After inserting the contents the flaps are folded along the lines of flexure 4 as before and may be secured in any suitable manner whereupon a completely closed container results.

In the last mentioned embodiment the container may conveniently be made to follow the configuration of the bottle or the like fairly closely this also being

applicable to the neck as shown. In this case no special inwardly projecting portions are required since the container can be made to fit and engage with the shoulders of the bottle or the like quite readily. Depressions 5 are, however, preferably provided for the purpose of maintaining the bottle in location away from the sides of the container so as to minimise the shock when the container is jolted or otherwise suddenly moved.

Doubtless other forms of the invention could readily be devised without however departing from the scope of the same.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. A bottle or the like case or like container of the kind herein referred to made from integrally moulded cellulosic pulp material and having one end open and comprising integrally formed closure means for said open end, the whole container including the closure means being formed in one moulding operation.

2. A case or like container according to Claim 1 in which the closure means comprise one or more flaps formed on the end edges of the container, said flaps being formed with lines of flexibility to facilitate the closure of the open end of the container.

3. A case or like container according to

Claim 1 and formed with straight sides in which the exterior sides of the container are provided with deep depressions forming projections on their inner surfaces adapted to engage endwise with the shoulder of a bottle or the like in order to locate the bottle endwise and prevent undue pressure of the end of the neck of the bottle on the end portion of the container.

4. A case or like container according to Claim 1 or 2 which is rectangular in cross section and has a closure flap formed at the open end of each side of the rectangle, a longer pair of flaps being adapted to fold over a shorter pair and to meet along a centre line.

5. A bottle or the like case or like container according to Claim 1, which is round in cross section and follows substantially the configuration of the neck and body portions of the bottle or the like, but the open end is of rectangular section and is integrally provided with closure flaps.

6. Bottle or the like cases or containers substantially as described with reference to the accompanying drawings for the purpose specified.

Dated this 29th day of December, 1933.

TONGUE & BIRKBECK,  
Bank Chambers, 329, High Holborn,  
London, W.C.1.  
Agents for the Applicants.

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Fig. 1.

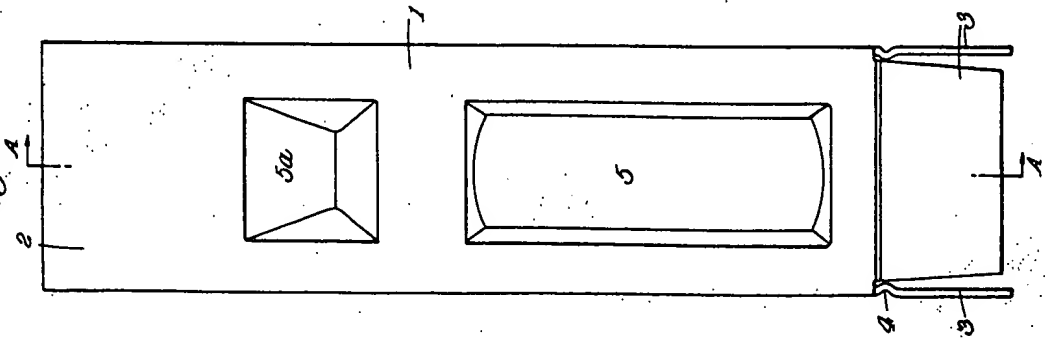


Fig. 2.

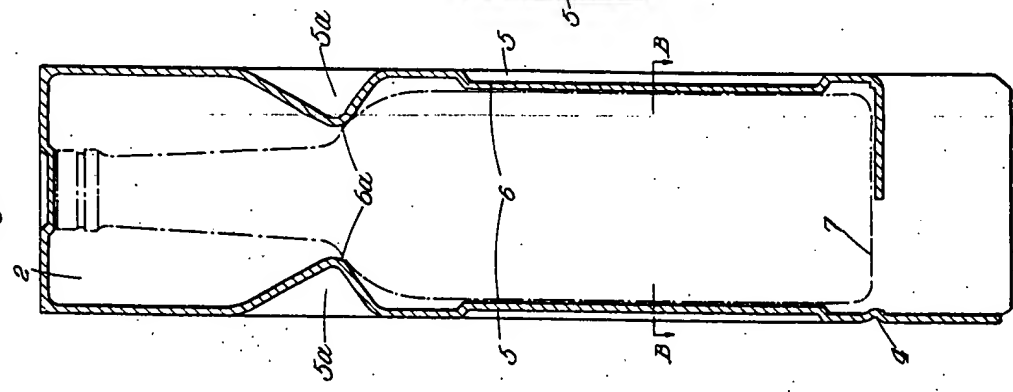


Fig. 3.

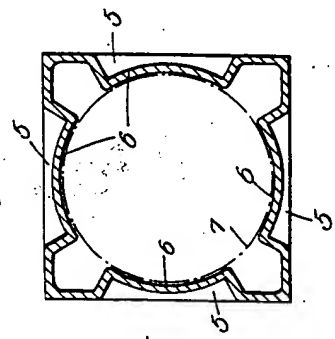
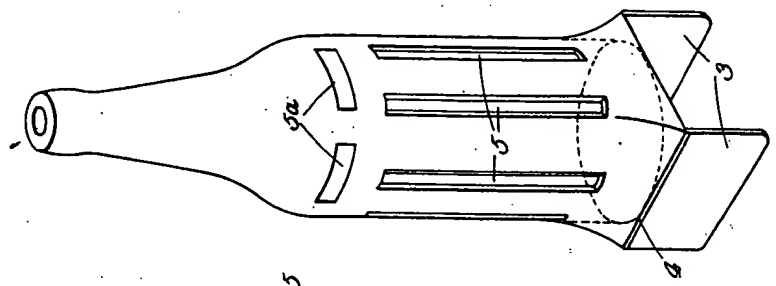


Fig. 4.



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